

# Web Demo and Topics

## Math Grade 5 - Part 1

1) Kathy's scores from 10 spelling tests were 96, 100, 89, 89, 83, 98, 100, 90, 89, and 99.

Using this data, find the mode and the median?

- 1) Median = 90, Mode = 99
- 2) Median = 89, Mode = 91
- 3) Median = 93, Mode = 89
- 4) Median = 83, Mode = 96

2) In a science experiment, Georgia mixed four chemicals. Chemical Y, 3.21 grams, chemical W, 4.94 grams, chemical X, 6.96 grams, and chemical Z 2.84 grams. What is the total number of grams of chemicals Georgia mixed together for the experiment?

- 1) 8.15
- 2) 15.11
- 3) 13.23
- 4) 17.95

3) Mr. Gold is 35 years old. His son is 9 years old. The ages of Mr. Gold, his wife and their son add up to 77.

Which equation could be used to determine Mrs. Gold's age?

- 1)  $35 + n = 77 + 9$
- 2)  $35 + 9 = 77 + n$
- 3)  $77 - 9 = 35 - n$
- 4)  $35 + 9 + n = 77$

4) Barbara has 9 cards.

Black 7

Red 6

Black 9

Black 8

Red 4

Black 1

Red 5

Black 3

Red 2

If she takes a card without looking, what is the probability that it will be an even card?

- 1)  $\frac{6}{9}$
- 2)  $\frac{5}{9}$
- 3)  $\frac{3}{9}$
- 4)  $\frac{4}{9}$

5) Examine the number pattern.

115, 109, 103, 97, 91, \_\_\_

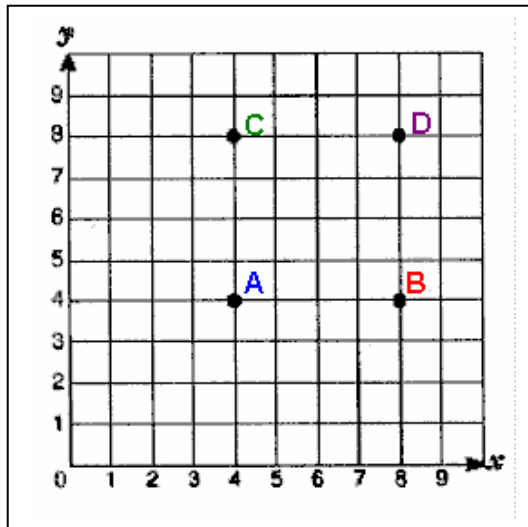
If the number pattern continues, what is the next number on the line?

- 1) 82
- 2) 87
- 3) 86
- 4) 85

6) A septagon has how many diagonals?

- 1) 14
- 2) 20
- 3) 18
- 4) 16

7) Which pair of coordinates names the location of point D?



- 1) (4, 8)
- 2) (8, 4)
- 3) (8, 8)
- 4) (4, 4)

8) What fractional part of a centimeter is a millimeter?

- 1)  $\frac{1}{8}$
- 2)  $\frac{1}{4}$
- 3)  $\frac{1}{100}$
- 4)  $\frac{1}{10}$

## Math Grade 5 - Part 2

1) The Neus River is about 1278 miles long, and the Majo River is about 629 miles long. How much longer is the Neus River than the

2) George and his 3 friends sold 928 charity tickets. Sue and her 5 friends sold 744 charity tickets. What was the average number of tickets sold by each of them?

3) A baker sold 300 loaves of bread at \$2 each. With the money he received from the sale, he bought 100 bags of flour. Find the cost of one bag.

4) A store is selling grapes at \$6 for 1.5 kg and papayas at \$2,80 for 1 kg. Don bought a total of 4.5 kg of grapes and 2.5 kg of papayas. Find the difference in price between 1 kg of papaya and 1 kg of grapes.

5) Chairs are being sold at \$35 each. John wants to buy as many chairs as possible. If he has \$460, what is the maximum number of chairs he can buy?

6) Ms. Jonas gives 1 bonus points for each extra-credit problem correctly completed.

If C stands for the number of extra-credit problems correctly completed, write an expression that is equal to the total number of bonus points.

7) Harry has 369 photographs to put in an album. He wants to put 9 photographs on each page. Write the number sentence can be used to find out how many pages Harry needs for all of the photographs.

8) What number satisfies all the following?

(n is a number)

$$n > 16$$

$$n < 32$$

n is a multiple of 4

n is divisible by 3

Write the missing number  $30 : \underline{\quad} = 6 : 3$ .

9) Ms. Fine gives 5 bonus points for each extra-credit problem correctly completed.

If C stands for the number of extra-credit problems correctly completed, write the expression that is equal to the total number of bonus points.

10) Kathy's scores from 12 spelling tests were 91, 100, 87, 87, 93, 98, 100, 90, 87, 81, 80, 83, and 100.

Using this data, find the mode and the median?

Express each percentage as a decimal and as a fraction in its simplest form.

85%

$\frac{3}{4}$  of a sum of money is \$963. What is the original amount of money?

11) Find the value of  $5 - \frac{2}{3} + \frac{3}{4}$ . (Express you answer in the simplest form)

12) In a class of 48 students, 25 have brown eyes, 11 have blue eyes, 8 have green eyes, and 4 have hazel eyes, What fraction of the class has hazel eyes?

13) Express  $6\frac{7}{10}$  as a decimal correct to 2 decimal places.

14) How many cubes with side 5 cm can be fitted into a box measuring 40 cm by 25 cm by 30 cm?

15) In a town, the rate for taxi fare for the first mile is \$3.60 and for every additional mile it is \$0.80. Find the taxi fare for a journey of 6.5 miles.

16) A decagon has how many diagonals?

17\_ If 50% of 1 hour has passed since 11:15 p.m., what should be the time now?

18) Find the product of 137,489 and 43

Black 7

Red 6

Black 9

Black 8

Red 4

Black 3

Red 2

If she takes a card without looking, what is the probability that it will be an even card?

19) A rock group played 4 nights at the stadium. There were 9,365 people who attended the first concert, 7,684 on the second night, 10,378 on the third night and 8,692 on the fourth night. What was the exact total of people who attended these 4 concerts?

20) A rectangular container 8 cm long and 9 cm wide was filled with water to a depth of 6 cm. When 12 marbles of equal size were added to the container, the depth of the water became 7.c m. Find the volume of one marble.

## Math Grade 5 - Part 1

Word Problems - addition - subtraction - division

Estimation - Number Sense - Computation

Algebraic Variables and Patterns

Algebraic Representations -Relationships

Geometric Concepts

Geometric Relationships

Fractions

Measurement

Analysis and Data Organization

Probability

## Math Grade 5 - Part 2

Addition - Subtraction

Analysis and Data Organization

Algebraic Variables and Patterns

Algebraic Representations -Relationships

Division

Estimation - Number Sense - Computation

Fractions

Geometric Concepts

Geometric Shapes - Relationships

Measurement

Measurement - English System

Measurement - Metric System

Measurement - Money

Measurement - Time

Multiplication

Probability

Word Problems

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